

# Biotechnology for the Non-Biotechnologist

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## Dates and venues

**19-21 September 2016 -  
Rembrandt Hotel, London -  
Ref: 9628**

**26-28 April 2017 - Radisson Blu  
Hotel, Nice - Ref: 9749**

**Registration & Refreshments 09.00**  
**Day 1 09.30 - 17.00**  
**Day 2 08.30 - 17.00**  
**Day 3 08.30 - 16.30**

## Accommodation

**The Rembrandt Hotel**, 11 Thurloe Place,  
London SW7 2RS, Tel: +44 (0) 20 7589 8100  
Email: [reservations\\_rembrandt@sarova.co.uk](mailto:reservations_rembrandt@sarova.co.uk)  
[www.sarova-rembrandthotel.com](http://www.sarova-rembrandthotel.com)

**Radisson Blu Hotel**, 223, Promenade des Anglais,  
06200, Nice, France, Hotel Tel: +33 4 97 17 70 76  
Email: [reservations-nice@radissonblu.com](mailto:reservations-nice@radissonblu.com)  
[www.radissonblu.com/Hotel-Nice](http://www.radissonblu.com/Hotel-Nice)

## Three ways to book

 [management-forum.co.uk](http://management-forum.co.uk)  
 [info@management-forum.co.uk](mailto:info@management-forum.co.uk)

 +44 (0) 20 7749 4730

## Fees and payment

### EARLY BOOKING DISCOUNT Book BEFORE 5 August 2016

£1499.00 + VAT = £1798.80 • €2099.00 + VAT = €2518.80

### FULL PRICE Book AFTER 5 August 2016

£1799.00 + VAT = £2158.80 • €2519.00 + VAT = €3022.80

### Multiple booking discount for 2nd or subsequent delegates - 15%

£1529.15 + VAT = £1834.98 • €2141.15 + VAT = €2569.38

## Payment options

1. Invoice which can be paid by bank transfer or credit / debit card
2. Online through our secure website when registering

## In-house training

This course is also available in-house and can be tailored to your specific needs. Our experts come to you, saving you time and money. For more information contact: [erika.cevallos@management-forum.co.uk](mailto:erika.cevallos@management-forum.co.uk)

## The small print

**FEE:** The fee includes all meals and refreshments for the duration of the course and a complete set of course materials. If you have any particular requirements please advise customer services when booking.

**HOW TO REGISTER AND PAY:** A VAT invoice and booking confirmation will be sent within 7 days, please contact us if you have not heard anything after that time. Payment can be made by credit/debit card, by bank transfer (for bank account details please see payment details section on our website). VAT no GB 41232109. Any questions please contact Customer Services on +44 (0) 20 7749 4730. **ALL PAYMENTS MUST BE RECEIVED IN ADVANCE OF THE EVENT.**

**MULTIPLE BOOKING DISCOUNTS:** This discount may not be used in conjunction with any other offer

**CANCELLATIONS AND TRANSFER:** Once we have received your booking the place(s) are confirmed.

| Delegate     | Up to 28 days before course | 27 to 14 days before course | 13 to 0 days before course |
|--------------|-----------------------------|-----------------------------|----------------------------|
| cancellation | 10% admin fee               | 100% admin fee              | 100% admin fee             |
| transfers    | Free                        | 10% admin fee               | 100% admin fee             |
| substitution | Free                        | Free                        | Free                       |

A maximum of one transfer is allowed. After the transfer no cancellation can be accepted and the full invoiced fee will be charged. Transfers are subject to payment of the difference on higher value courses. All cancellations must be received in written form.

Ideal for non-scientists and scientists needing to understand the basic theory, principles, techniques, and potential of biotechnology

# Biotechnology for the Non-Biotechnologist

**19-21 September 2016 - Rembrandt Hotel, London**  
**26-28 April 2017 - Hotel Radisson Blu, Nice**



## Why You Should Attend:

- Gain an introduction to the fundamental principles of Biotechnology
- Improve your understanding of the key techniques used by Biotechnologists
- Understand the importance of meeting regulatory requirements and hear about the advances being made
- Learn how to identify potential patents, and why and how they must be protected

Chairman:

**Dr Adekunle Onadipe**

Associate Research Fellow, Bioprocess R&D, Cell Line Development, Pfizer Inc., USA

**And a Panel of Expert Speakers**

For event cancellation policy and T&Cs see our website

Includes: *Interactive and practical exercises*

This intensive 3 day course is ideal for Non-Scientists and Scientists needing to understand the basic theory, principles, techniques and potential of biotechnology.

The course has been designed for:

Personnel from:

- Quality Assurance
- Regulatory Affairs
- Legal and IP
- Business Development
- Sales and Marketing
- Engineering
- Finance
- Training
- Administration
- Management

## Chairman:

**Dr Adekunle Onadipe**, Associate Research Fellow, Bioprocess R&D, Cell Line Development, Pfizer Inc, USA

## Speakers:

**Dr Adrian Haines**, Section Head of Process Development Sciences at Novimmune SA, Switzerland

**Dr Mark Richardson**, Pharmaceutical and Biotech Regulatory Affairs Consultant, UK

**Kate Smith**, Principal Scientist, Development Services, BioReliance, UK

**Alison Sykes**, Associate Director Physico-Chem Analytics, Biosimilars, at Merck Serono, Switzerland

**Dr Philip Webber**, Partner, Dehns, Patent and Trademark Attorneys, UK

**Dr Robert J. Young**, Principal Group Leader, New Expression Technologies Group, Lonza Biologics plc, UK

## In-house TRAINING

### Bespoke training solutions

- Tailored to your needs
- Face-to-Face
- Online

**Empower your whole team with this training as an in-house programme.** If you have 5 or more participants who could benefit from this training then we can come to you. We bring our expert to you and can develop the programme to your team's specific needs at a fraction of the cost of multiple public course fees.

To find out how we can work with you, what you will get and for how much, please call **Erika Cevallos** on **+44 (0)20 7729 4730** or email [erika.cevallos@management-forum.co.uk](mailto:erika.cevallos@management-forum.co.uk)

## Register Now!

Register now at [management-forum.co.uk](http://management-forum.co.uk) or, for more information, call **+44 (0)20 7749 4730** to speak to our customer service team or email [info@management-forum.co.uk](mailto:info@management-forum.co.uk)

## Programme

### Day one

#### 09.30 ► Introduction to Biotechnology

- Historical perspective
- Diversity of biotechnology products
- Impact on society
- Product development overview

#### ► Introduction to Molecular Biology

- DNA, RNA, genes, plasmids, and vectors
- Protein synthesis – transcription and translation

#### ► Re-Expression of Proteins

- Recombinant DNA techniques
- Monoclonal antibodies – from mouse to human
- Transgenic animals and plants

#### ► Development of Production Organisms

- Transfection
- Selection
- Preservation

#### ► Fermentation Technology and Large Scale Production

- Types of fermenters
- Fermentation basics
- Modes of operation
- Process development

#### ► General Discussion

#### 17.00 ► End of Day One and Drinks Reception

### Day two

#### 08.30 ► Process Optimisation and Scale-Up

- Scale-up strategies
- Strain improvement
- Media improvement
- Process improvement

#### ► Analysis of Biopharmaceuticals

- Biological activity
- Physicochemical characterisation
- Purity, impurities and contaminants

#### ► Product Recovery and Purification

- Cell harvesting and removal
- Clarification – intracellular and extracellular proteins
- Chromatographic techniques

#### ► Formulation Design of Biopharmaceuticals

- Factors affecting degradation
- Choice of excipients
- Prolonging shelf life

### Day two....continued

#### ► Process Economics

- Drug development and bioprocess economics
- Optimising bioprocess economics
- Manufacturing make or buy
- Future manufacturing alternatives

#### ► General Discussion

#### 17.00 ► End of Day Two

### Day three

#### 08.30 ► Patenting Biotech Inventions

- What is a patent?
- What are the basic criteria for patentability?
- What can be patented?
- Can you patent genes, proteins, hybridomas, and stem cells?

#### ► Patent Workshop

- How to recognise what is patentable
- Drafting claims to biotech inventions
- Maximising protection for an invention
- Understanding the examination process
- Enforcing patents

#### ► Regulatory Considerations of Biopharmaceuticals

- General principles
- Product quality and control
- Pre-clinical safety

#### ► Application of Regulatory Principles

- What do regulators want?
- Specifications
- Product characterisation
- Assessment of process change
- Comparability guidance and strategy

#### ► Advances in Regulation: Biosimilars

- Comparability, equivalence and biosimilarity
- Biosimilars guidance
- Guidance vs Practice – a case study

#### ► Advances in Regulation: Advanced Therapies

- Gene Therapy
- Cell Therapy
- Tissue Engineered Products

#### ► General Discussion

#### 16.30 ► End of Course